

## **Louisiana Gobbling Activity Survey - 2005**

### **INTRODUCTION**

Significant changes were made in hunting season structure beginning with the 1999 turkey season. The turkey season was shortened in Area A (central and south Louisiana) by 7 days and began 1 week later. In Area B the season length was unchanged but the season opened 1 week earlier. These changes were made in response to concern over high harvest rates, deteriorating habitat, and declines in some regional population indices. The goals of these changes were to reduce gobbler harvest and develop more uniform opening dates.

Since 2000, Louisiana has had a uniform opening date, with all turkey hunting areas opening the fourth Saturday in March. The opening day remains a controversial subject, with some hunters favoring an earlier opening, and others favoring a later opening. A common complaint regarding the opening day structure involves the perceived lack of gobbling activity.

In anticipation of hunter concerns about reduced gobbling activity with the later season opening in Area A, we initiated this gobbling activity survey prior to the 1999 turkey season. The goals of this survey are to monitor gobbling activity and identify active periods and trends. Additionally, its usefulness as an abundance index will be evaluated.

### **METHODS**

Survey routes were set up in areas with moderate to high turkey populations. Each survey route consisted of at least 4 stops. More stops were used provided the survey could be completed in 1 hour. At each stop the observer listened for 8 minutes and recorded the number of gobbles heard and the number of individual gobblers. Stops were located so that the same turkeys could not be heard from more than 1 stop. Stops were run in the same order each day and the survey route began at 30 minutes before sunrise. Observers were permitted to use a crow call to stimulate gobbling; however, once a gobble was heard no further calling was permitted. Routes were run at least 5 days per week from 7-24 March. Weather conditions were recorded each day.

Selected routes were again run after the hunting season to compare pre-season and post-season indices. A SAS T Test Procedure was used to test for differences.

Data were analyzed using SAS Proc GLM to determine if indices of gobbling activity (gobbles per stop and gobblers per route) exhibited significant trends, and whether there were day or week effects. An alpha level of  $P \leq 0.1$  was used to denote significant differences. Summary statistics were developed by Excel statistical functions. Linear and moving average trends were graphed using MS Power Point trend line function.

Routes north of an east – west line through Alexandria were classified as north Louisiana routes. Routes south of that line were classified as south Louisiana routes.

## RESULTS AND DISCUSSION

Routes were established and run on 10 Wildlife Management Areas (WMA), 2 private tracts, and on the Catahoula Ranger District (R.D). of the Kisatchie National Forest. Wildlife Management Areas with routes were: Bens Creek, Bodcau, Fort Polk, Jackson-Bienville, Red River, Sherburne, Sicily Island, Three Rivers, Union, and West Bay. The private tracts were Mosher Hill Hunting Club in Washington Parish and a tract bordering the Amite River in Livingston Parish. A total of 179 observation-days comprising 847 stops were recorded and used in the pre-season analyses.

Gobbling activity varied among routes. Mean gobblers per stop ranged from 0.18 on West Bay WMA to 5.34 on Sherburne WMA (Table 1). Mean individual gobblers per route ranged from 0.43 on Red River WMA to 4.5 on Sherburne WMA. Significant positive trends were observed for both measures of gobbling activity for Union, Sherburne, and Bens Creek WMAs, as well as, the Amite River route (Figs. 1- 4). A significant negative trend for gobblers per stop was recorded on Three Rivers WMA. (Fig. 5). Nonsignificant positive trends were observed for both measures of gobbling activity on Sicily Island, West Bay, Bodcau, Jackson-Bienville, and Ft. Polk WMAs, as well as, Mosher Hill Hunting Club (Figs. 6-11). Catahoula Ranger District exhibited no discernable trend (Fig. 12). Red River WMA exhibited a nonsignificant negative trend for both measures of gobbling activity (Fig. 13).

The combined north Louisiana routes exhibited a significant positive trend for gobblers per stop and a nonsignificant positive trend for individual gobblers per stop (Figs. 14-15). The combined south Louisiana routes showed significant positive trends for both measures of gobbling activity (Figs. 16-17). The combined statewide routes exhibited significant positive trends for both measures of gobbling activity. (Figs. 18-19).

Date of high count for gobblers per stop varied among routes (Table 1). Highest counts for gobblers per stop were recorded during the week of 7-12 March for 3 routes, during the week of 13-18 March for 4 routes, and during the week of 19-24 March for 7 routes. In order to reduce the influence of a single, possibly aberrant high count, the 3 highest counts per route were tabulated and routes pooled for a regional measure of weekly gobbling activity (Table 2). The amount of gobbling was low during the first and second weeks of the survey in south Louisiana, but increased during the third week. In north Louisiana, the amount of gobbling and the number of gobbling birds increased from the first to the third week.

Post-season routes were run on Bens Creek WMA, Mosher Hill Hunting Club, and Union WMA (Table 3). Pre-season and post-season measures of gobbling activity were not significantly different on any of these routes.

Gobbling activity was less intense than that observed in 2004. Except for the West Bay WMA and Mosher Hill routes, the 2004 mean values for gobblers per stop were lower than the 2004 mean values on every route. In 2004, March temperatures were 3 degrees above normal across the state. In contrast, 2005 March temperatures averaged 2 degrees below normal across the state. This cooler weather probably contributed lower levels of gobbling activity during the survey period. Despite the lower level of gobbling activity, gobbling increased as hunting

season approached in most areas.

Caution should be used in interpreting the data relative to gobbling peaks. The levels of gobbling activity fluctuated daily on most routes with high counts one day and often zeroes the next. Weather or other disturbance factors can have profound effects on gobbling activity on any given day. Trends and sustained high levels of gobbling activity, such as depicted by the 3-period moving average, should be used to determine gobbling activity peaks

Table 1. Summary statistics from Louisiana gobbling activity survey, 7 March - 24 March, 2005.

Route Date(s)	Dates	Stops	N	Mean	SE	Gobblers Per Stop			Individual Gobblers			
						Range	High Date	High Week (Mean)	Mean	SE	Range	High
Amite River	3/7 - 3/24	4	15	3.75	1.28	0 - 15.3	3/24	3/21 - 3/24 (10.8/stop)	3.5	0.76	0 - 8	3/11, 3/21
Bens Creek	3/7 - 3/24	4	14	0.30	0.14	0 - 1.5	3/23	3/21 - 3/24 (0.9/stop)	0.6	0.23	0 - 2	3/18, 3/22, 3/24
Bodcau	3/7 - 3/24	4	14	1.61	0.44	0 - 4.3	3/19, 3/24	3/14 - 3/19 (1.85/stop)	1.5	0.37	0 - 4	3/17
Catahoula R.D.	3/7 - 3/24	5	14	0.36	0.15	0 - 1.6	3/11	3/7 - 3/11 (0.7/stop)	0.79	0.35	0 - 4	3/11
Ft. Polk	3/7 - 3/22	7	12	0.56	0.17	0 - 2.1	3/21	3/21 - 3/24 (0.7/stop)	2.3	0.45	0 - 6	3/21
Jackson - Bienville	3/7 - 3/24	4	14	1.46	0.43	0 - 6.5	3/24	3/21 - 3/24 (2.1/stop)	1.79	0.43	0 - 6	3/24
Mosher Hill H.C.	3/7 - 3/24	4	13	0.56	0.34	0 - 4.5	3/17	3/14 - 3/17 (1.1/stop)	0.54	0.18	0 - 2	3/23
Red River	3/7 - 3/24	4	14	0.73	0.31	0 - 3.8	3/9	3/7 - 3/11 (1.4/stop)	0.43	0.17	0 - 2	3/7
Sherburne	3/7 - 3/24	7 <sup>a</sup>	14	5.34	1.83	0 - 25.1	3/18	3/14 - 3/18 (7.6/stop)	4.50	1.07	0 - 14	3/18
Sicily Island	3/7 - 3/24	5	14	1.36	0.45	0 - 5.6	3/24	3/21 - 3/24 (2.3/stop)	2.71	0.81	0 - 9	3/24
Three Rivers	3/7 - 3/24	4	14	0.68	0.31	0 - 3.8	3/10	3/7 - 3/11 (1.4/stop)	0.79	0.28	0 - 3	3/10
Union	3/7 - 3/14	5	14	3.63	0.80	0 - 10.6	3/18	3/21 - 3/24 (4.6/stop)	3.00	0.55	0 - 6	3/17, 3/18, 3/24
West Bay	3/8 - 3/24	5	13	0.18	0.12	0 - 1.4	3/18	3/14 - 3/18 (0.3/stop)	0.90	0.55	0 - 5	3/18

Table 1. Cont'd

Route Date(s)	Dates	Stops	N	Mean	SE	Gobblers Per Stop			Mean	Individual Gobblers		
						Range	High Date	High Week (Mean)		SE	Range	High
N. LA <sup>b</sup>	3/7 - 3/24	4 - 23	15	1.83	0.35	0.3 – 4.9	3/24	3/21 – 3/24 (2.2/stop)	0.44 <sup>c</sup>	0.08 <sup>c</sup>	0.1 – 1.0 <sup>c</sup>	3/24
S. LA <sup>d</sup>	3/7 - 3/24	4 - 28	15	1.96	0.47	0.2 – 5.8	3/18	3/21– 3/24 (2.6/stop)	0.40 <sup>c</sup>	0.08 <sup>c</sup>	0.1 – 1.3 <sup>c</sup>	3/19
Statewide	3/7 - 3/24	8 - 62	15	1.90	0.40	0.4– 4.8	3/19	3/21– 3/24 (2.5/stop)	0.41 <sup>c</sup>	0.07 <sup>c</sup>	0.1 – 1.0 <sup>c</sup>	3/19

a Consists of 2 routes of 3 and 4 stops each, run simultaneously

b Includes Bodcau WMA, Catahoula R.D, Jackson - Bienville WMA, Sicily Island Hills WMA, Union WMA

c Expressed as individual gobblers **per stop**

d Includes Amite River, Bens Creek WMA, Mosher Hill H.C., Red River WMA, Sherburne WMA, Three Rivers WMA, West Bay WMA

Table 2. Weekly occurrence of 3 highest values from each route for 2005 Louisiana gobbling activity survey.

Region	Week	Percent of Stops	<u>Occurrence of highest values (%)</u>	
			Gobbles per Stop	Individual Gobblers
North Louisiana	7 -12 March	35.3	26.7	29.4
	13 - 18 March	35.3	26.7	35.3
	19 -24 March	29.4	46.7	35.3
South Louisiana	7 -12 March	35.3	18.5	30.6
	13 - 18 March	36.7	33.3	27.8
	19 -24 March	28.0	48.1	41.7
Statewide	7 -12 March	35.3	21.4	30.2
	13 - 18 March	36.1	31.0	30.2
	19 -24 March	28.6	47.6	39.6

Table 3. Comparisons of pre-season and post-season indices of gobbling activity for selected routes.

Route	<u>Period</u>		<u>Mean Gobbles per Stop (SE)</u>			<u>Mean Individual Gobblers (SE)</u>		
	Pre-season	Post Season	Pre-season	Post Season	P > t	Pre-season	Post Season	P > t
Bens Creek	3/21 - 24	5/2 - 6	0.88 (0.33)	0.85 (0.20)	0.95	1.25 (0.48)	2.0 (0.31)	0.24
Mosher Hill	3/21 - 24	5/2 - 6	0.56 (0.26)	1.4 (0.71)	0.35	1.0 (0.41)	1.4 (0.40)	0.51
Union	3/14 - 24	5/2 - 13	4.36 (1.15)	2.68 (0.60)	0.28	3.56 (0.78)	2.10 (0.23)	0.11

# Gobbling Activity Routes

## Union WMA - 2005

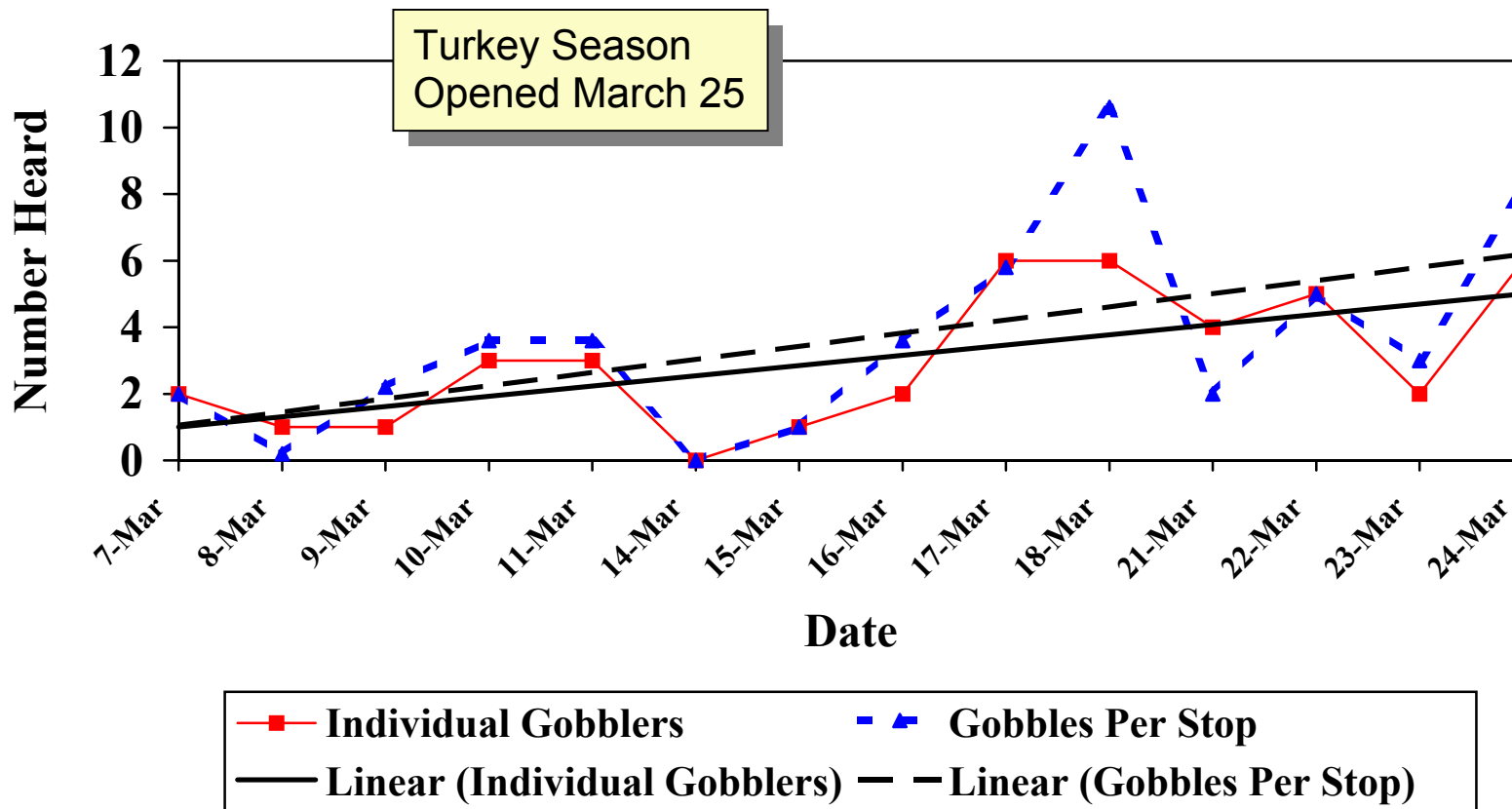


Figure 1.



# Gobbling Activity Routes

## Ben's Creek WMA - 2005

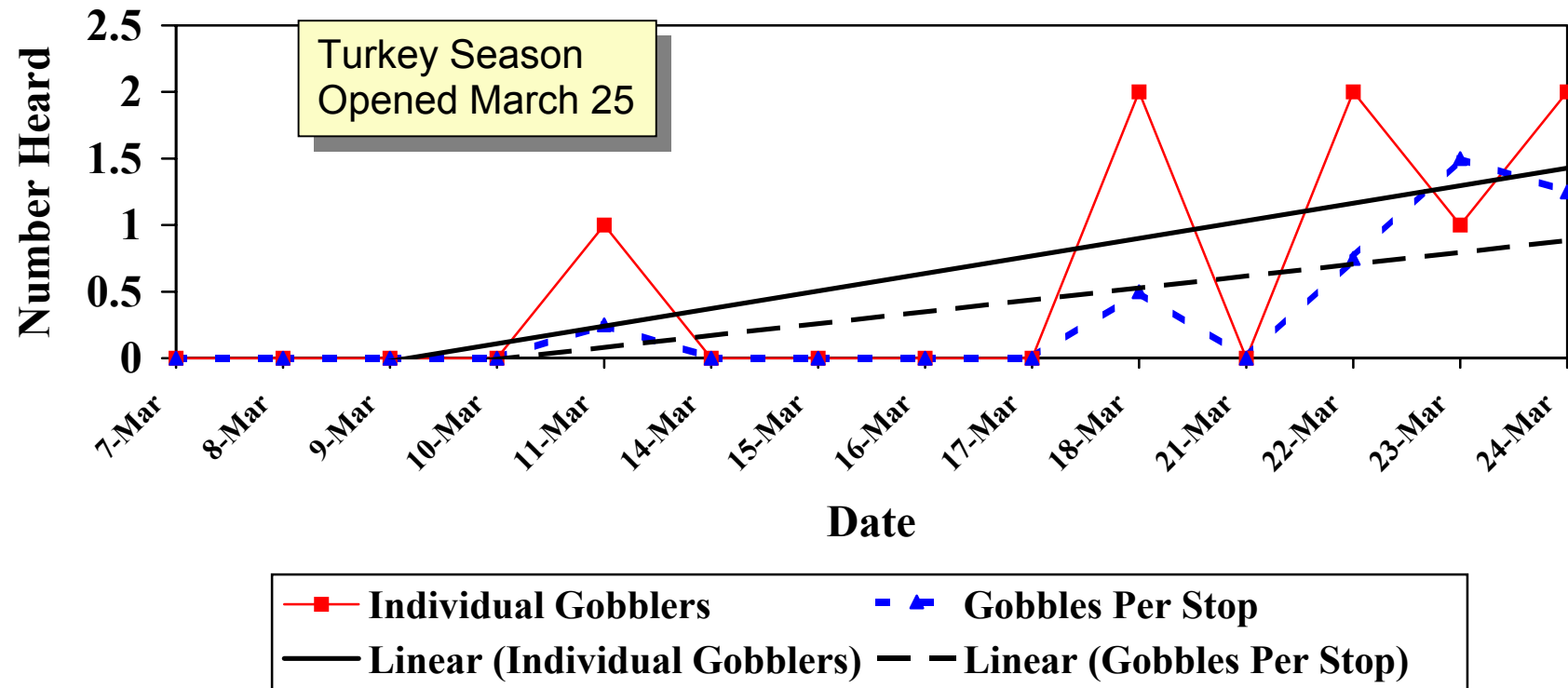


Figure 2.

# Gobbling Activity Routes

## Sherburne WMA - 2005

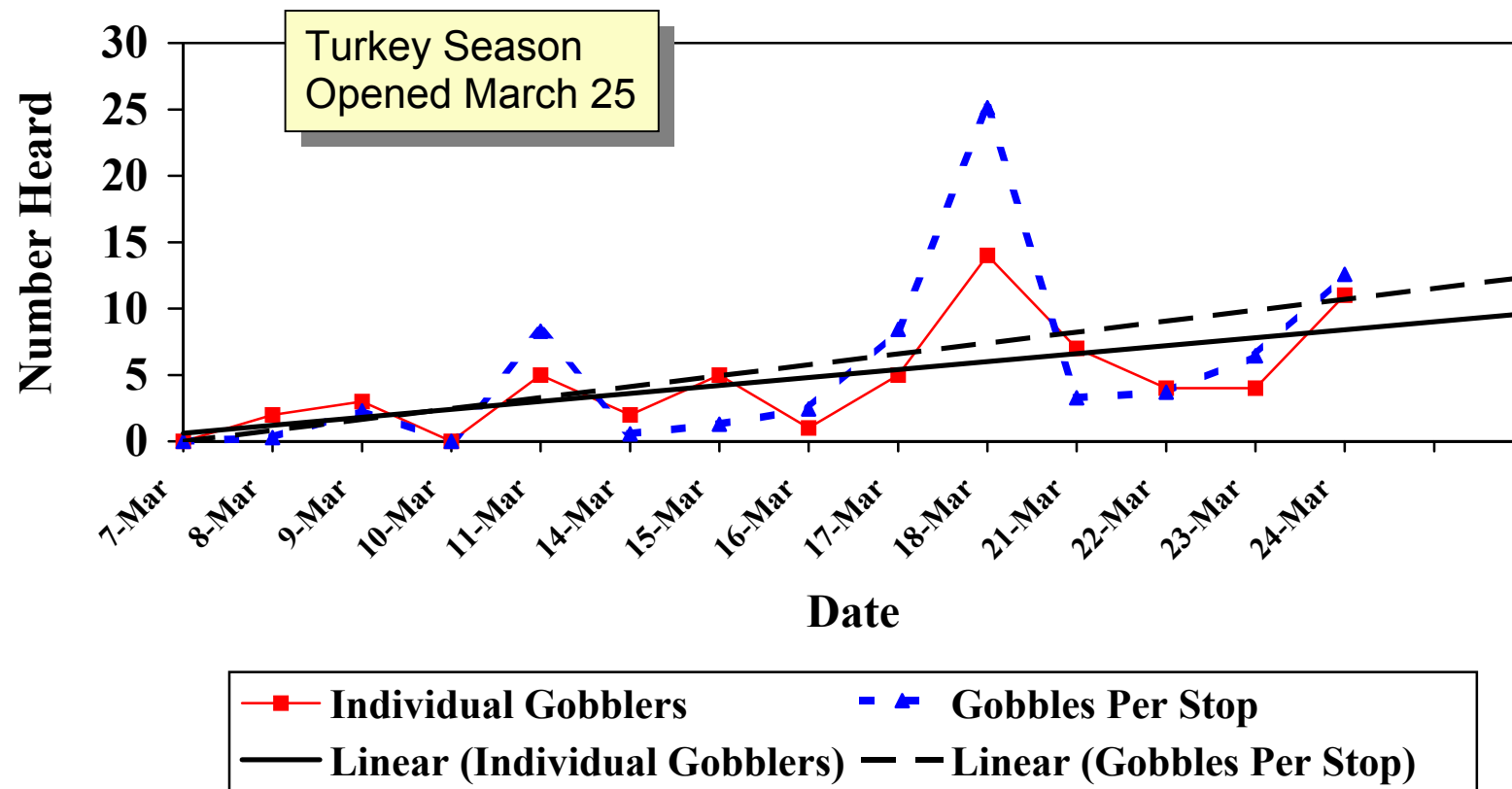


Figure 3.

# Gobbling Activity Routes

## Amite River - 2005

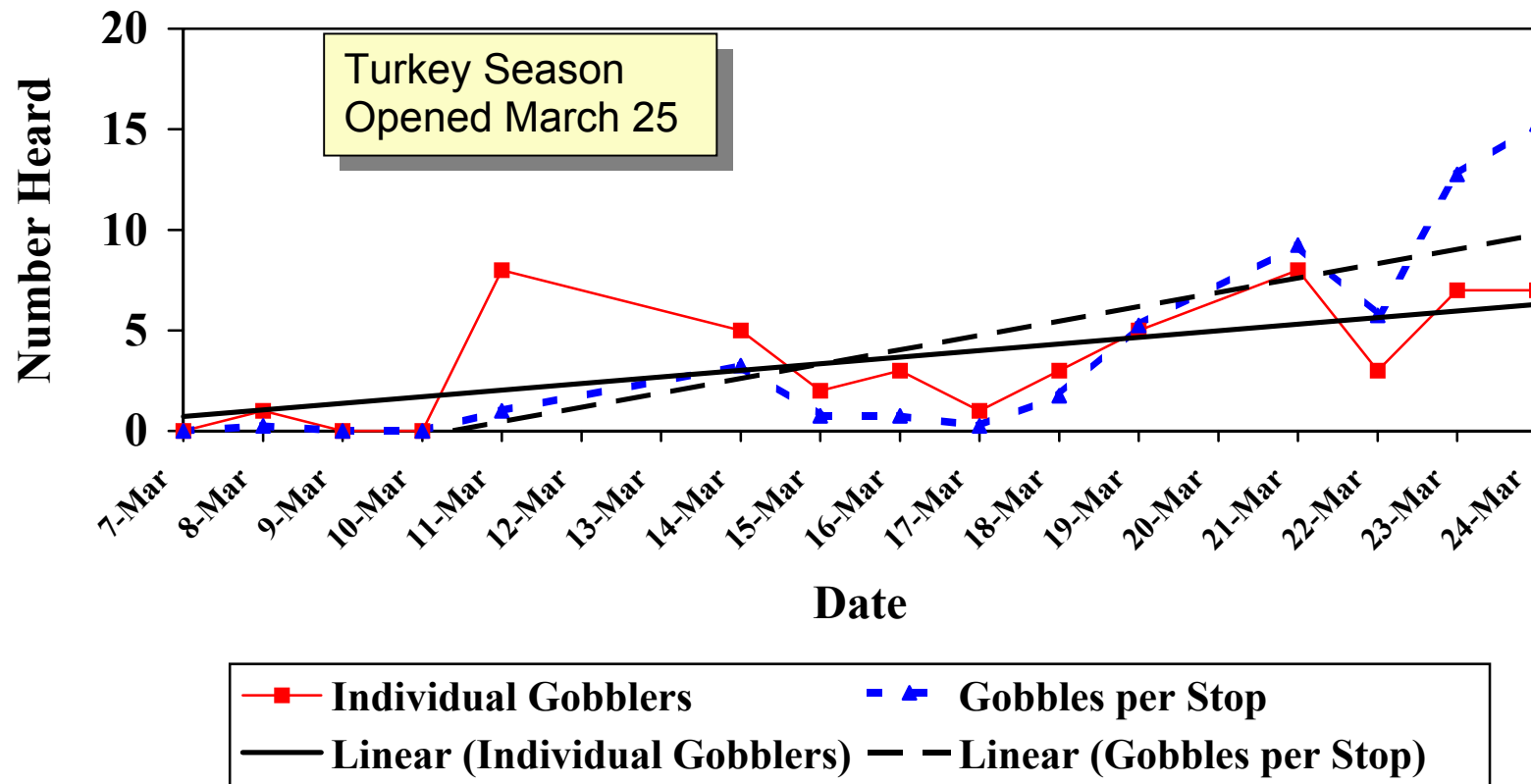


Figure 4.

# Gobbling Activity Routes

## Three Rivers WMA - 2005

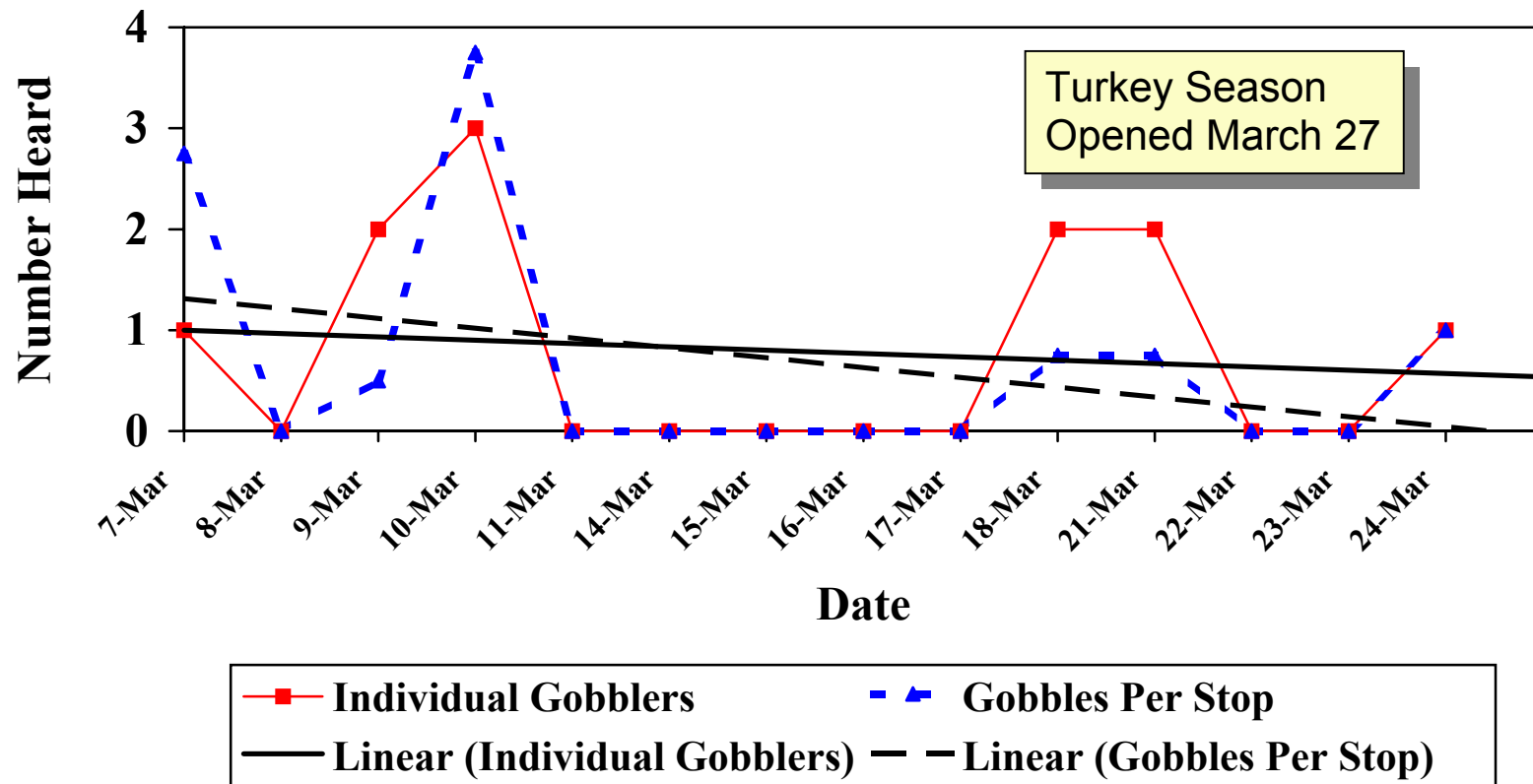


Figure 5.

# Gobbling Activity Routes

## Sicily Island WMA - 2005

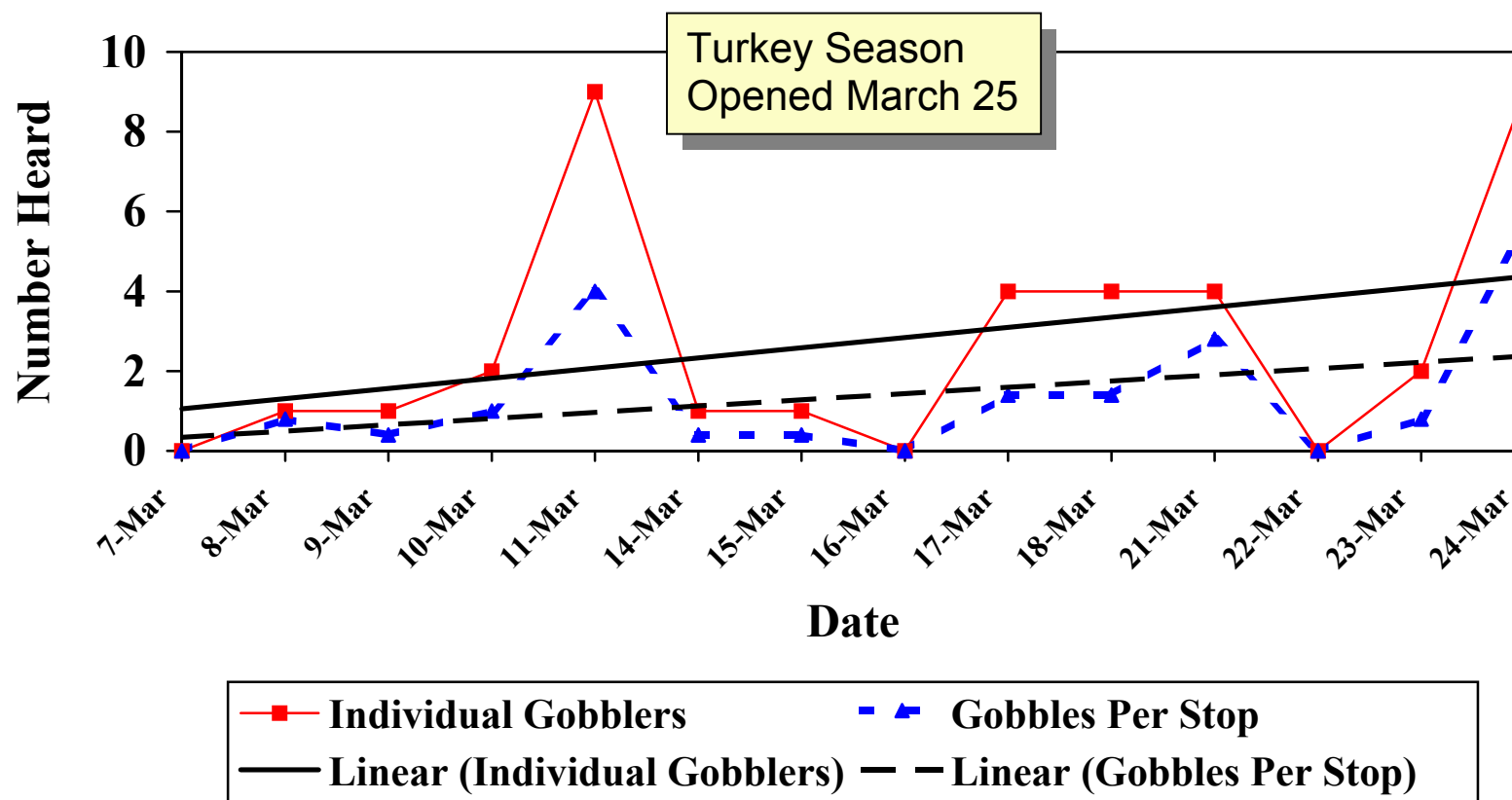


Figure 6.

# Gobbling Activity Routes

## West Bay WMA - 2005

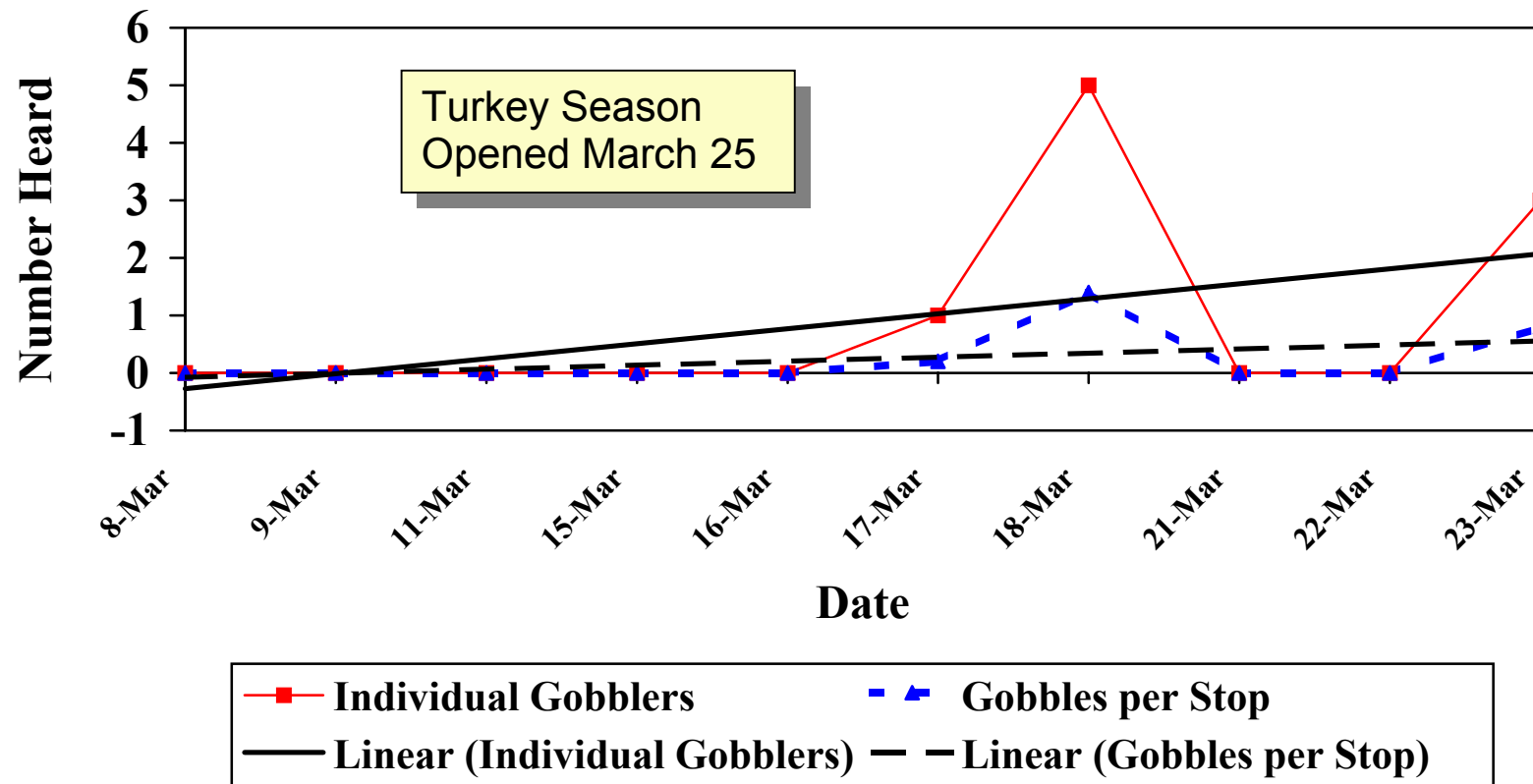


Figure 7.

# Gobbling Activity Routes

## Bodcau WMA - 2005

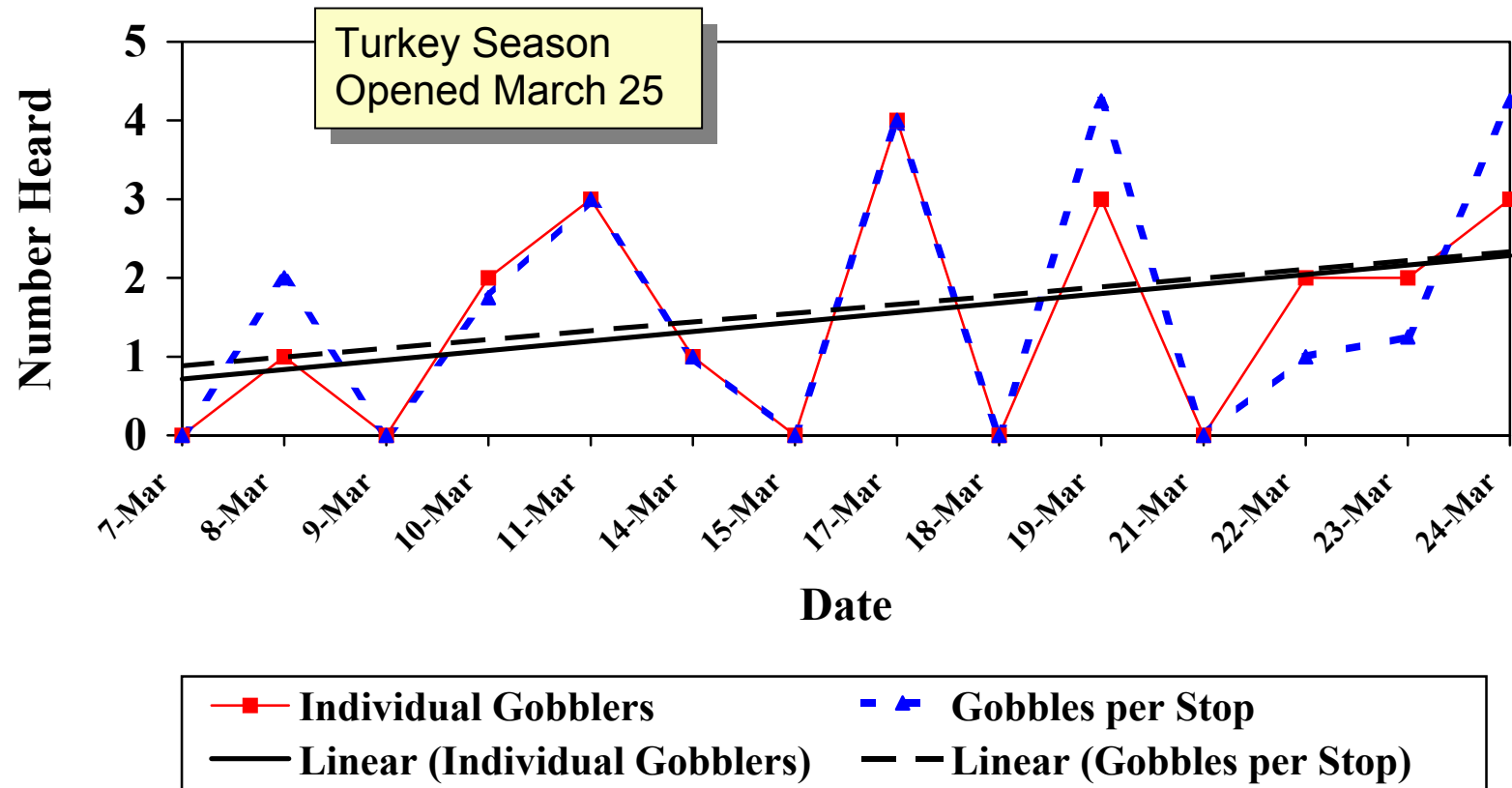


Figure 8.

# Gobbling Activity Routes

## Jackson-Bienville WMA - 2005

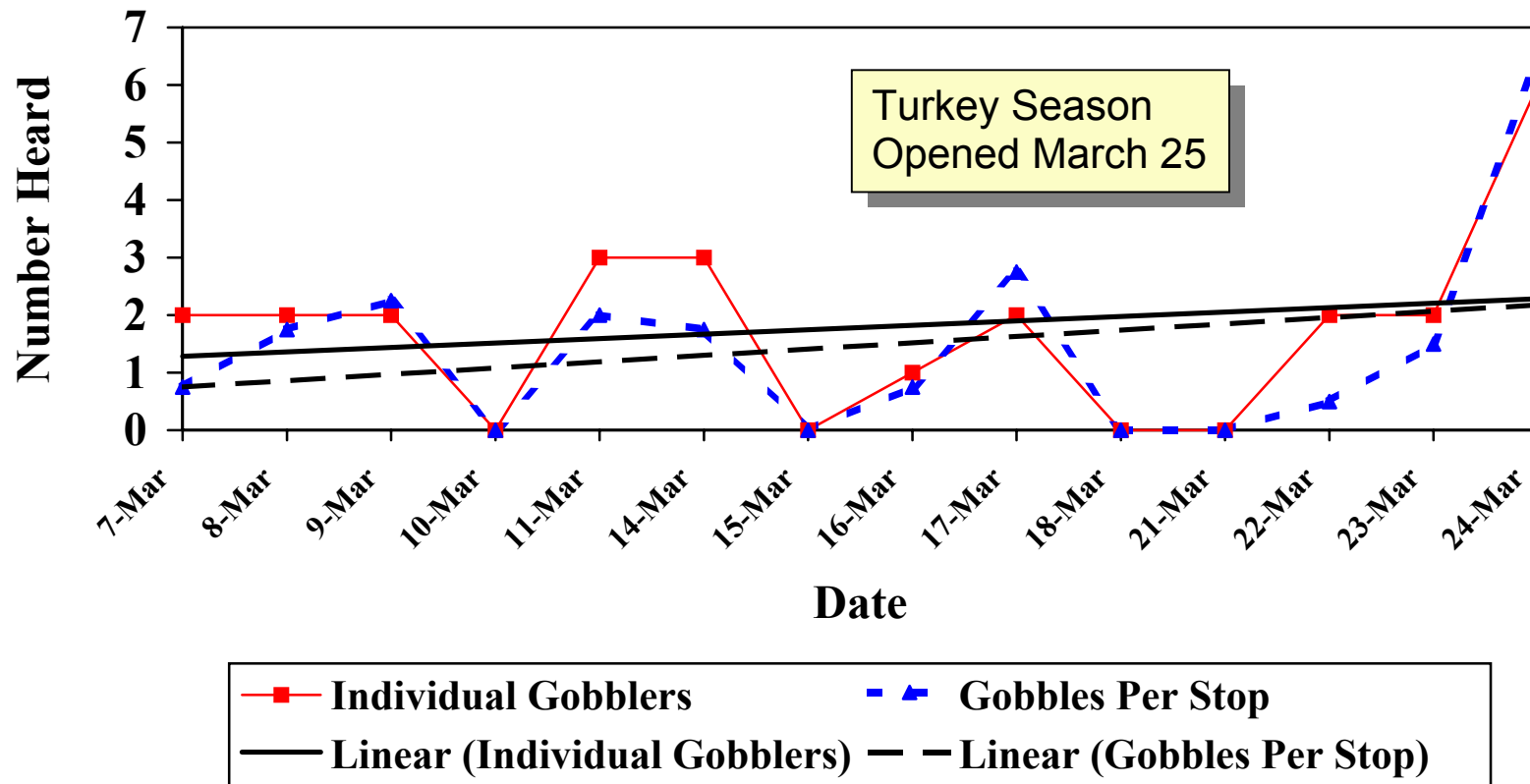


Figure 9.



# Gobbling Activity Routes

## Fort Polk WMA - 2005

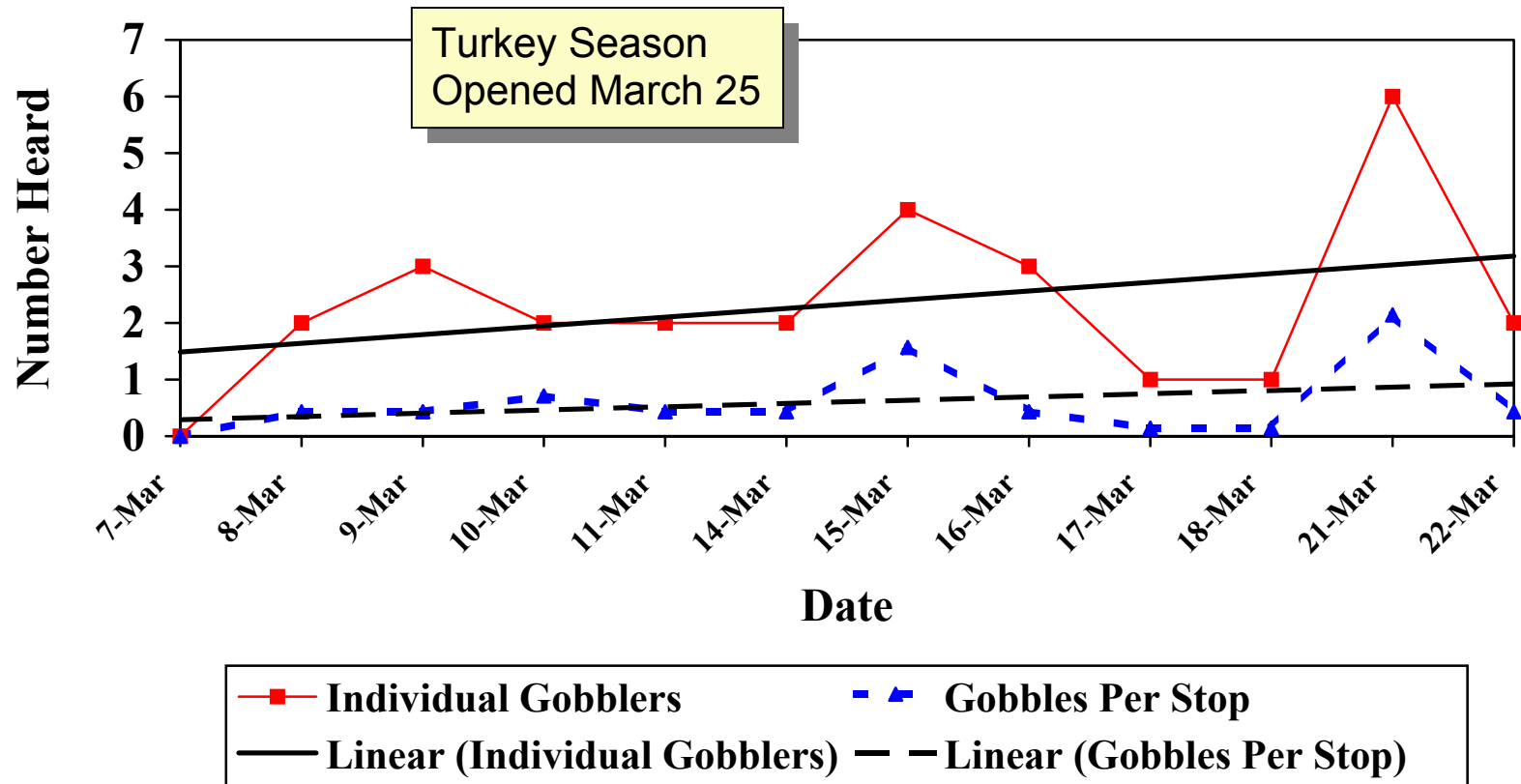


Figure 10.

# Gobbling Activity Routes

## Mosher Hill H.C. - 2005

### Washington Parish

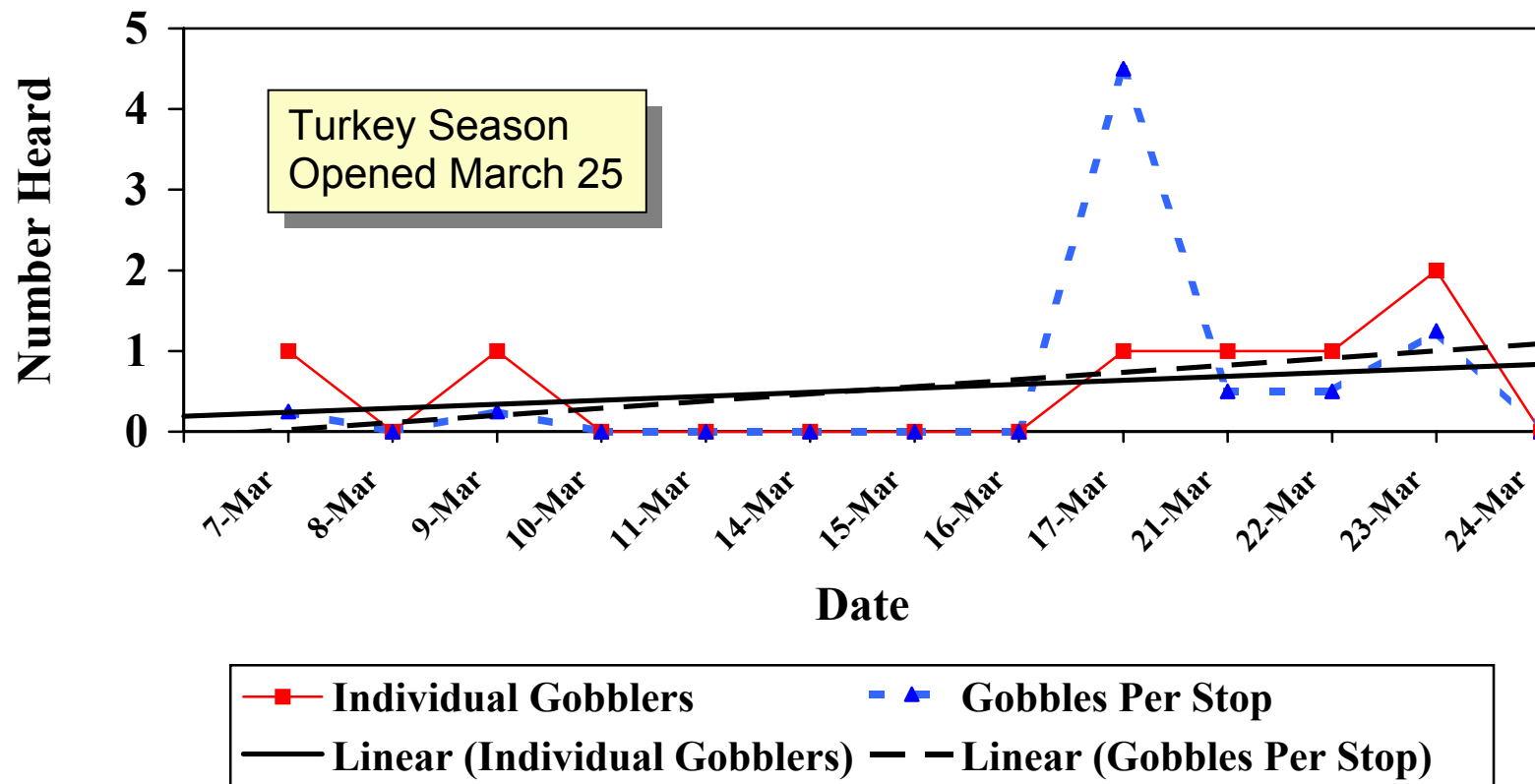


Figure 11.

# Gobbling Activity Routes

## Catahoula R.D. - 2005

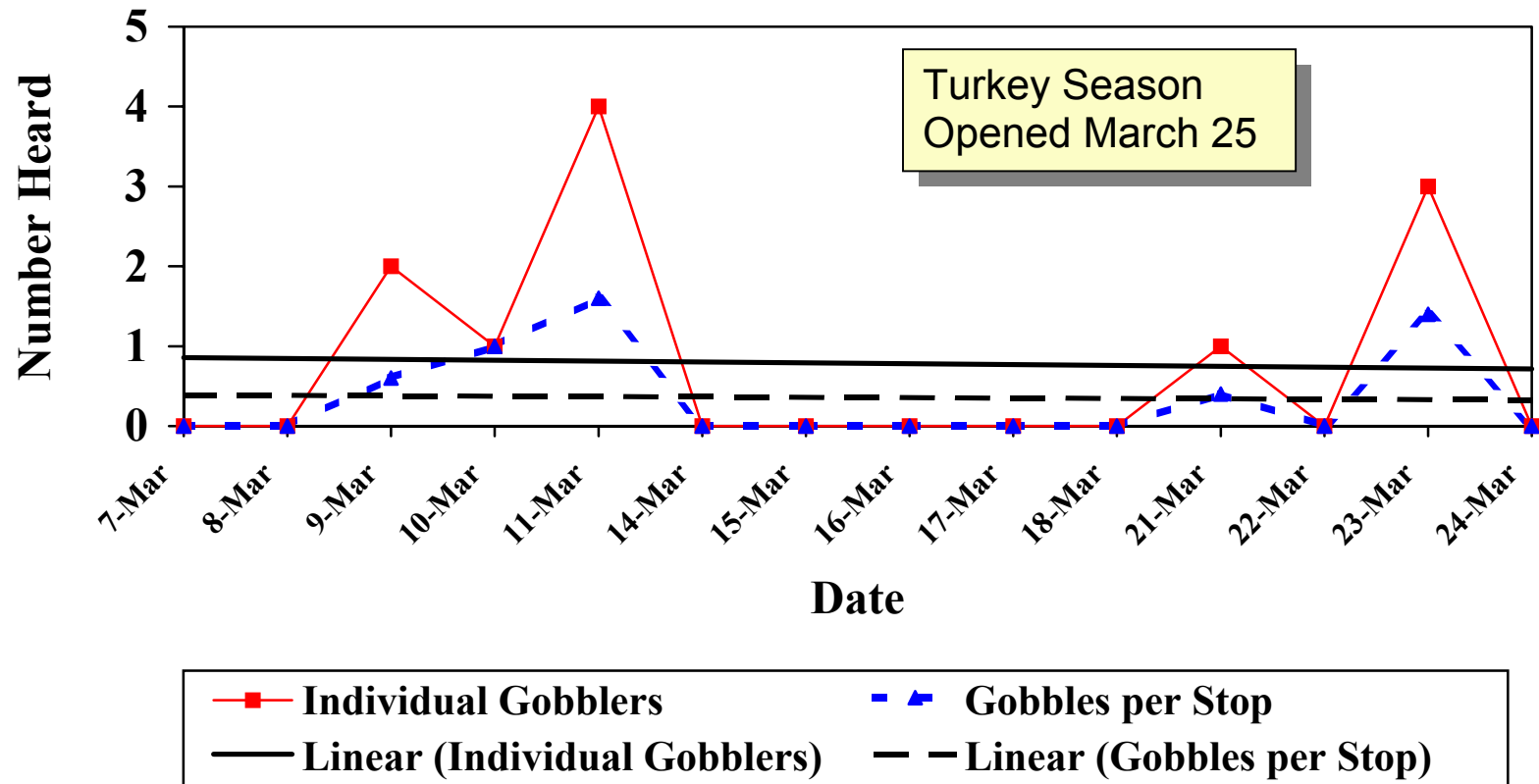


Figure 12.

# Gobbling Activity Routes

## Red River WMA - 2005

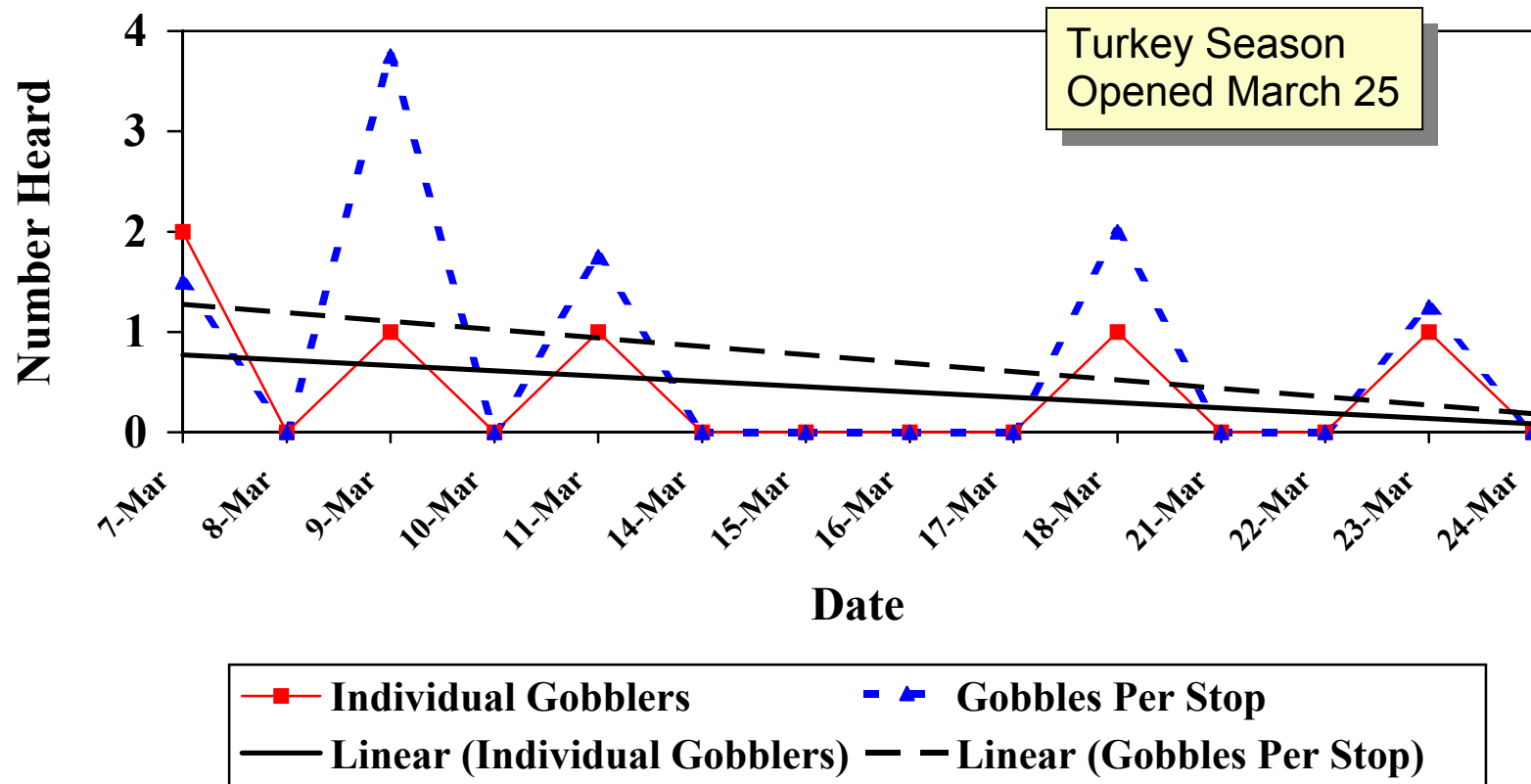


Figure 13.

# Gobbling Activity Routes

## North Louisiana - 2005

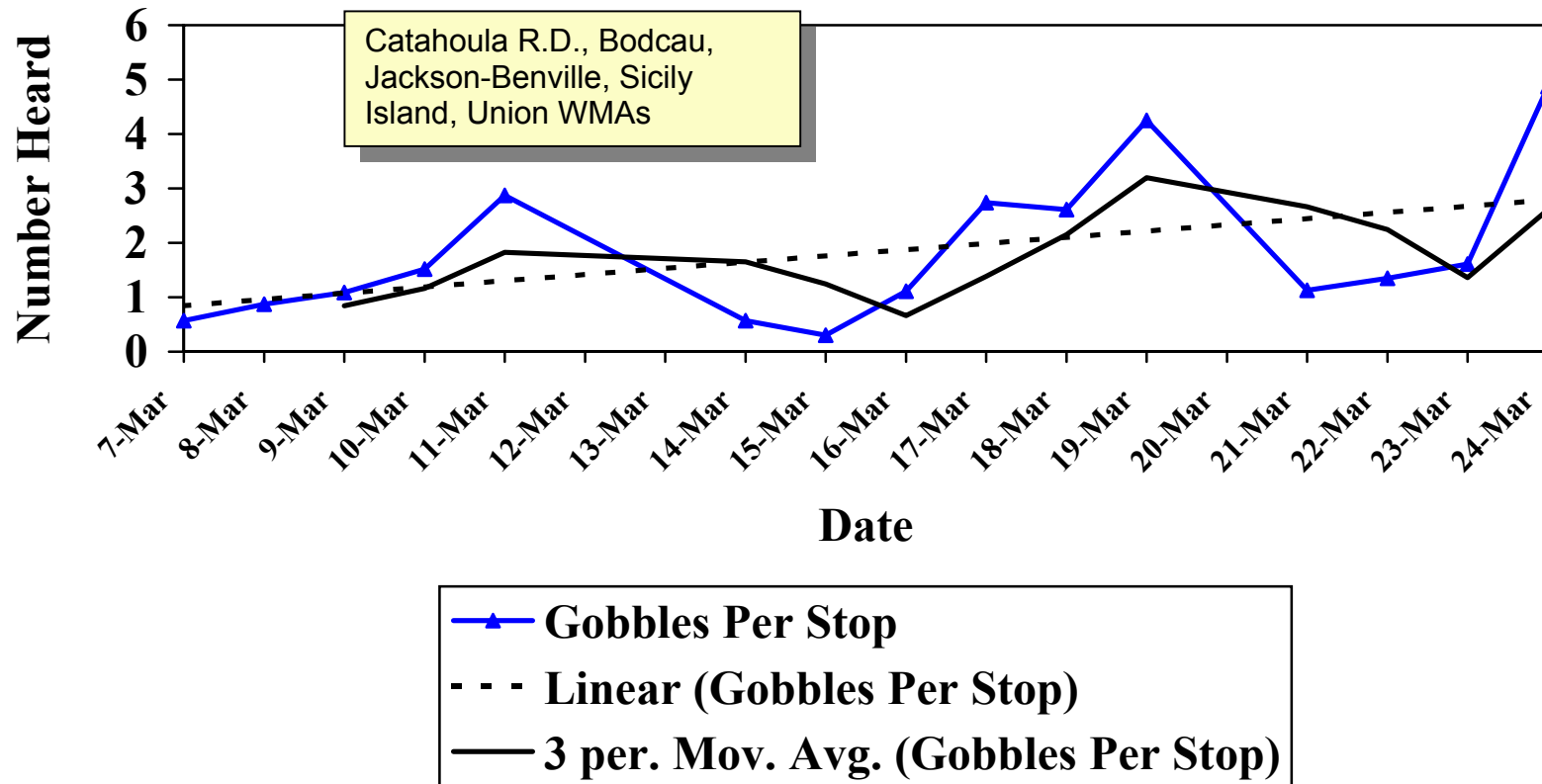


Figure 14.

# Gobbling Activity Routes

## North Louisiana - 2005

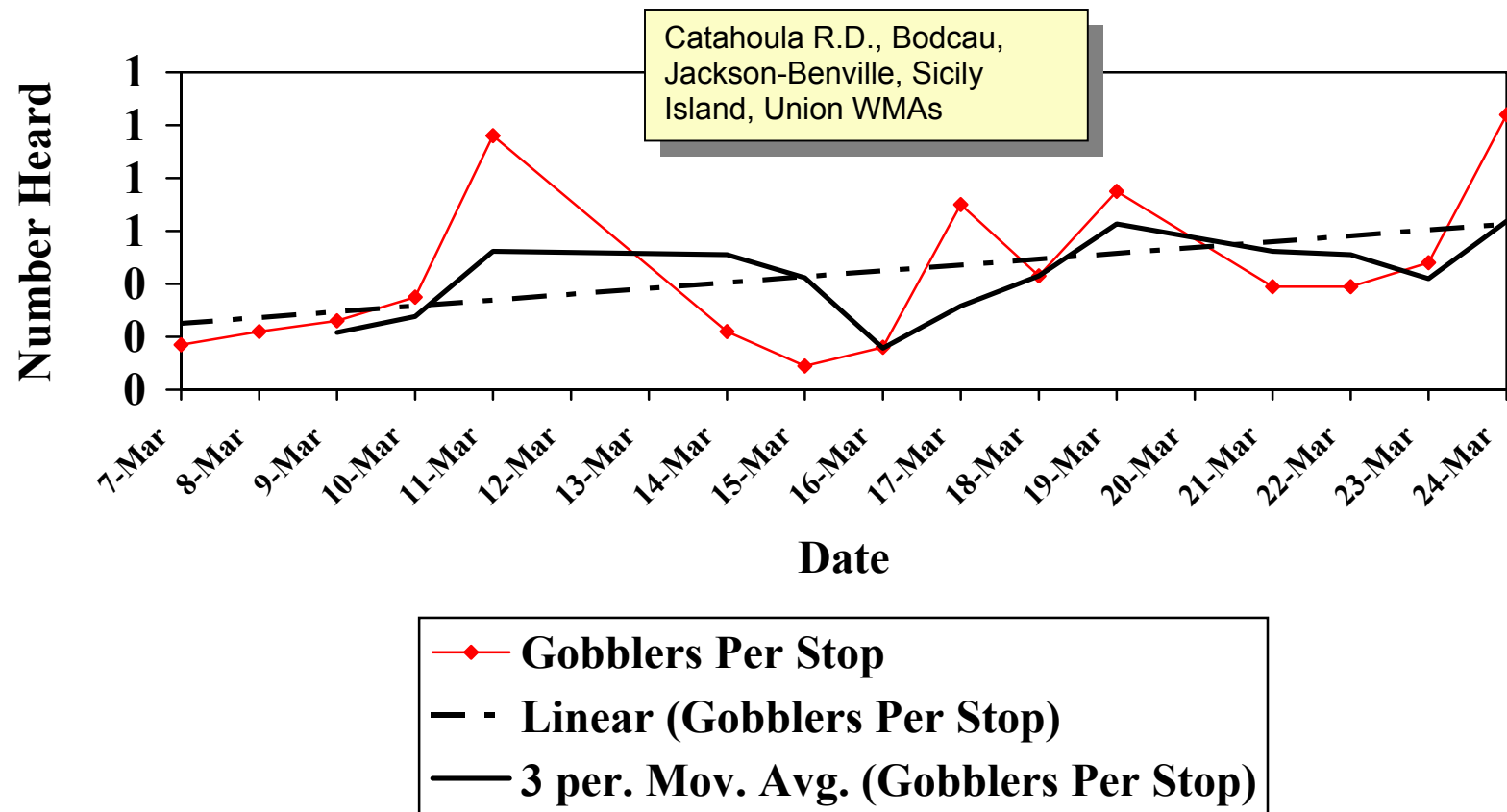


Figure 15.

# Gobbling Activity Routes

## South Louisiana - 2005

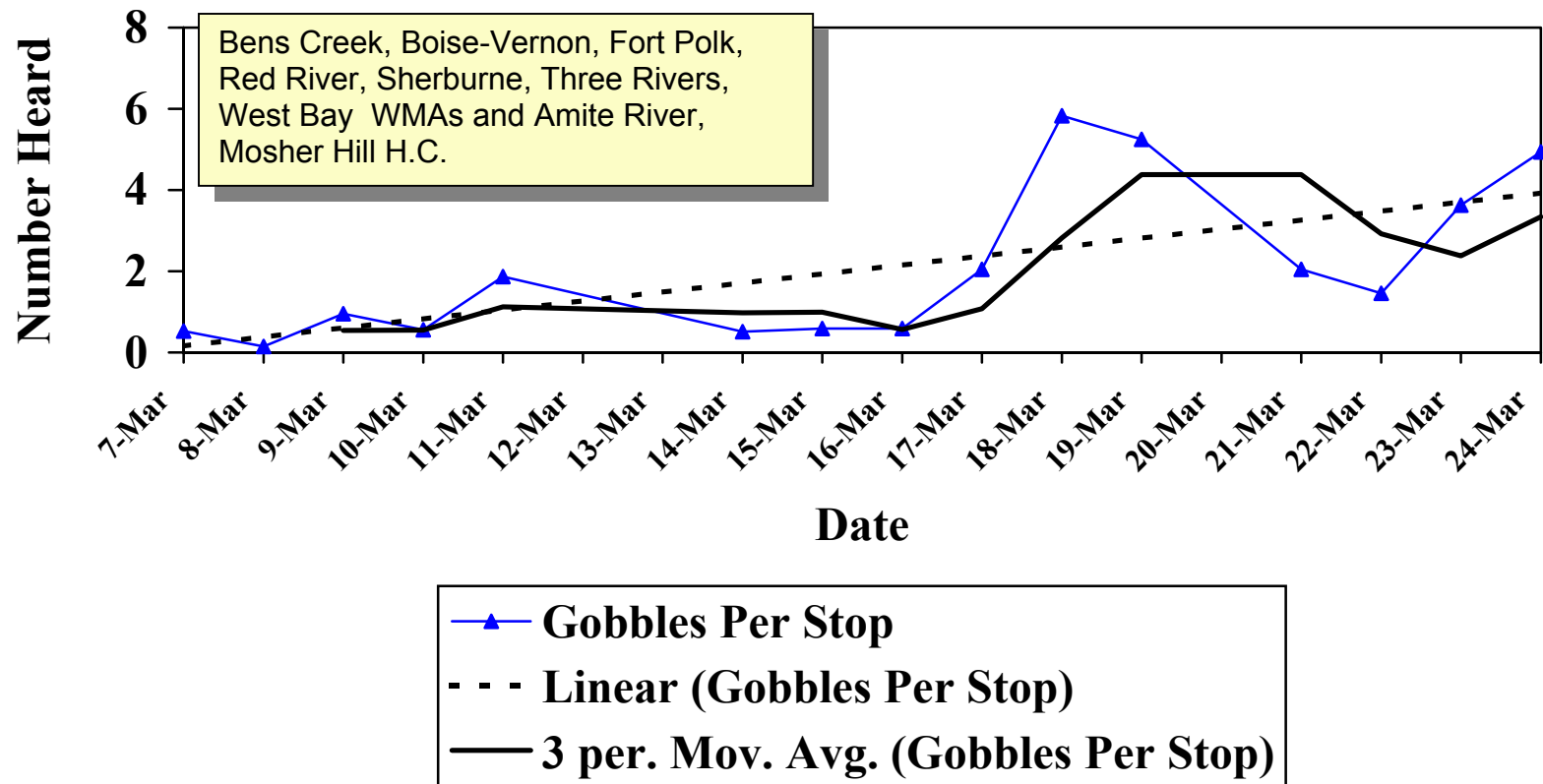


Figure 16.

# Gobbling Activity Routes

## South Louisiana - 2005

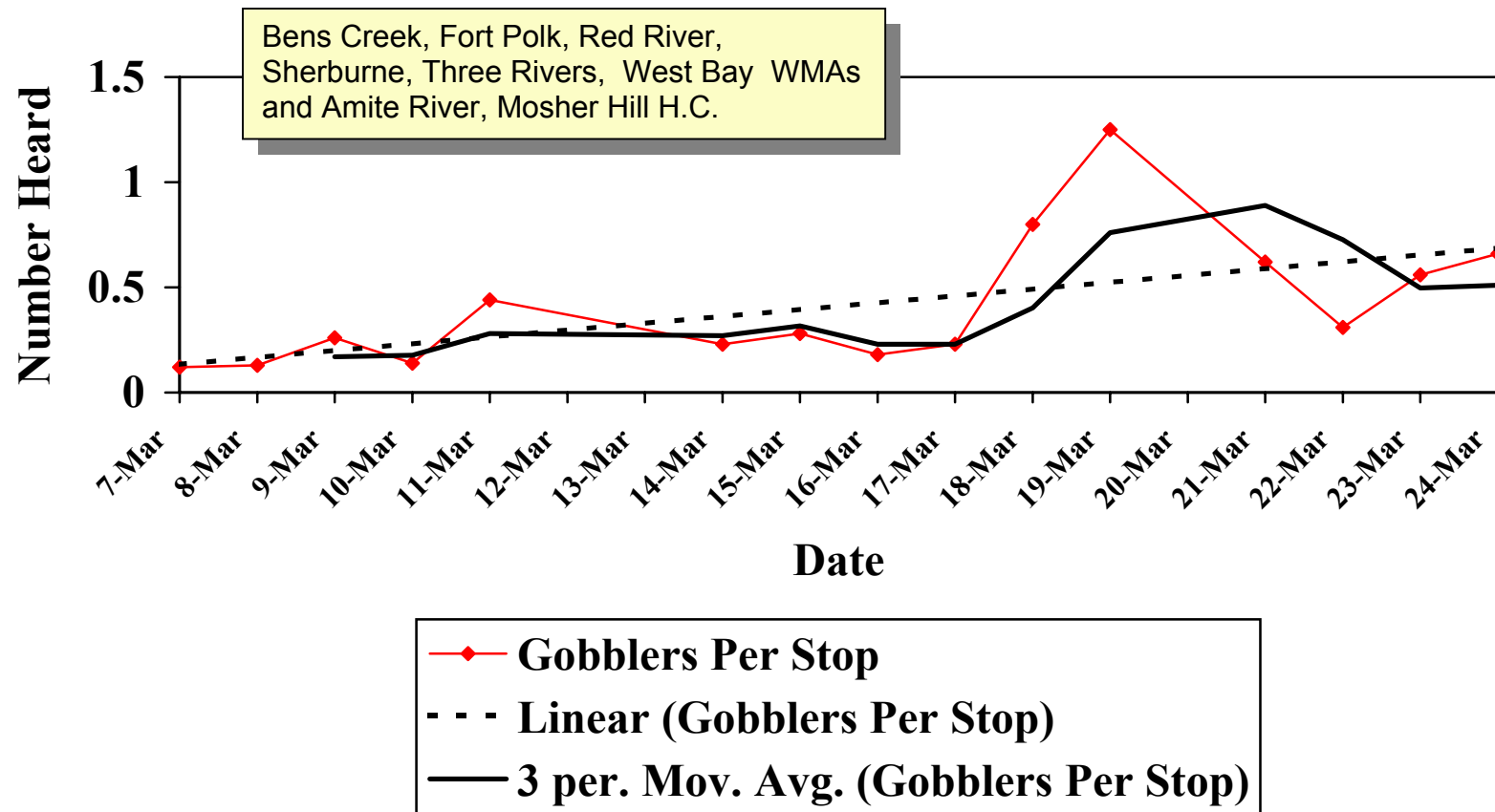


Figure 17.



# Gobbling Activity Routes

## Statewide - 2005

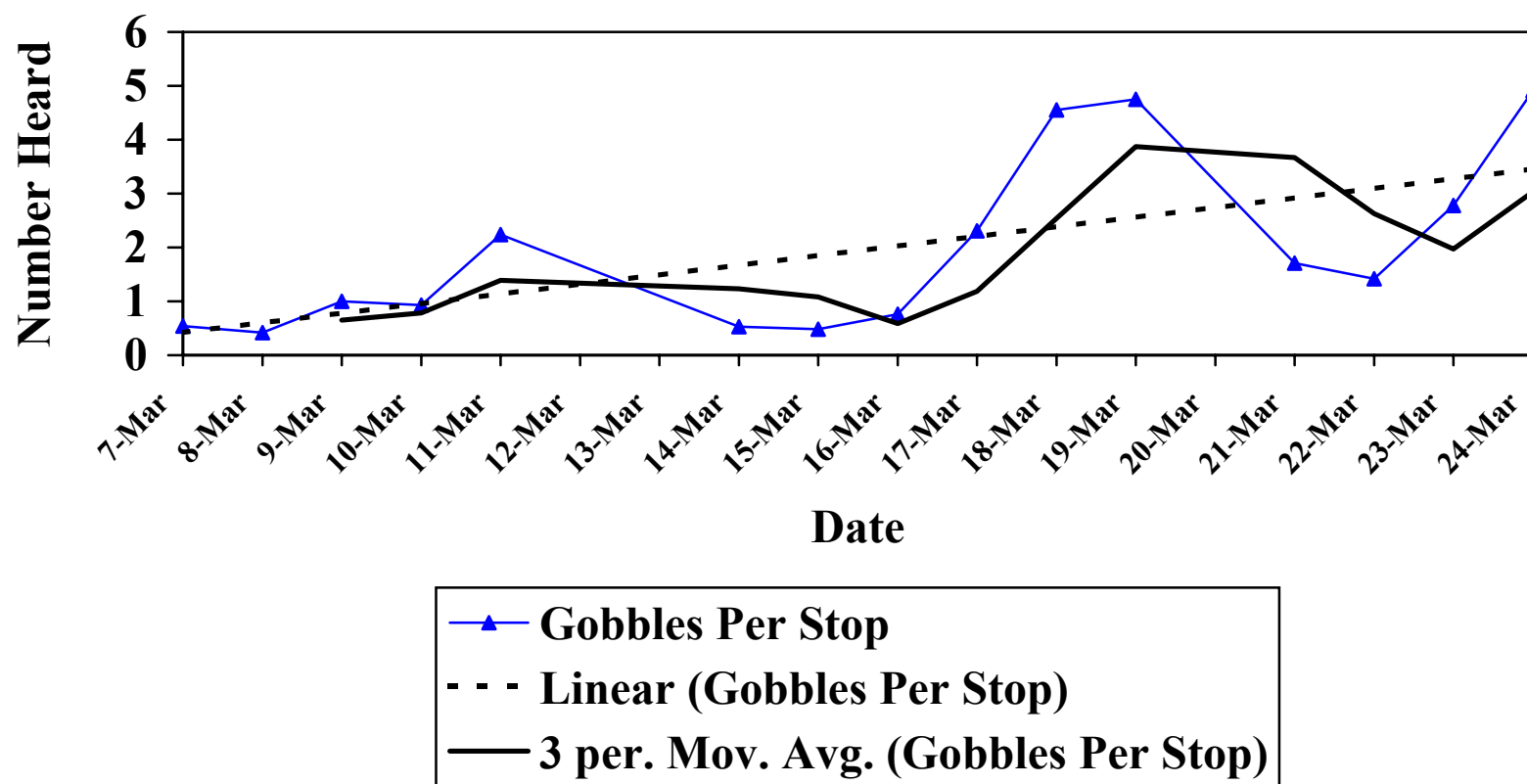


Figure 18.

# Gobbling Activity Routes

## Statewide - 2004

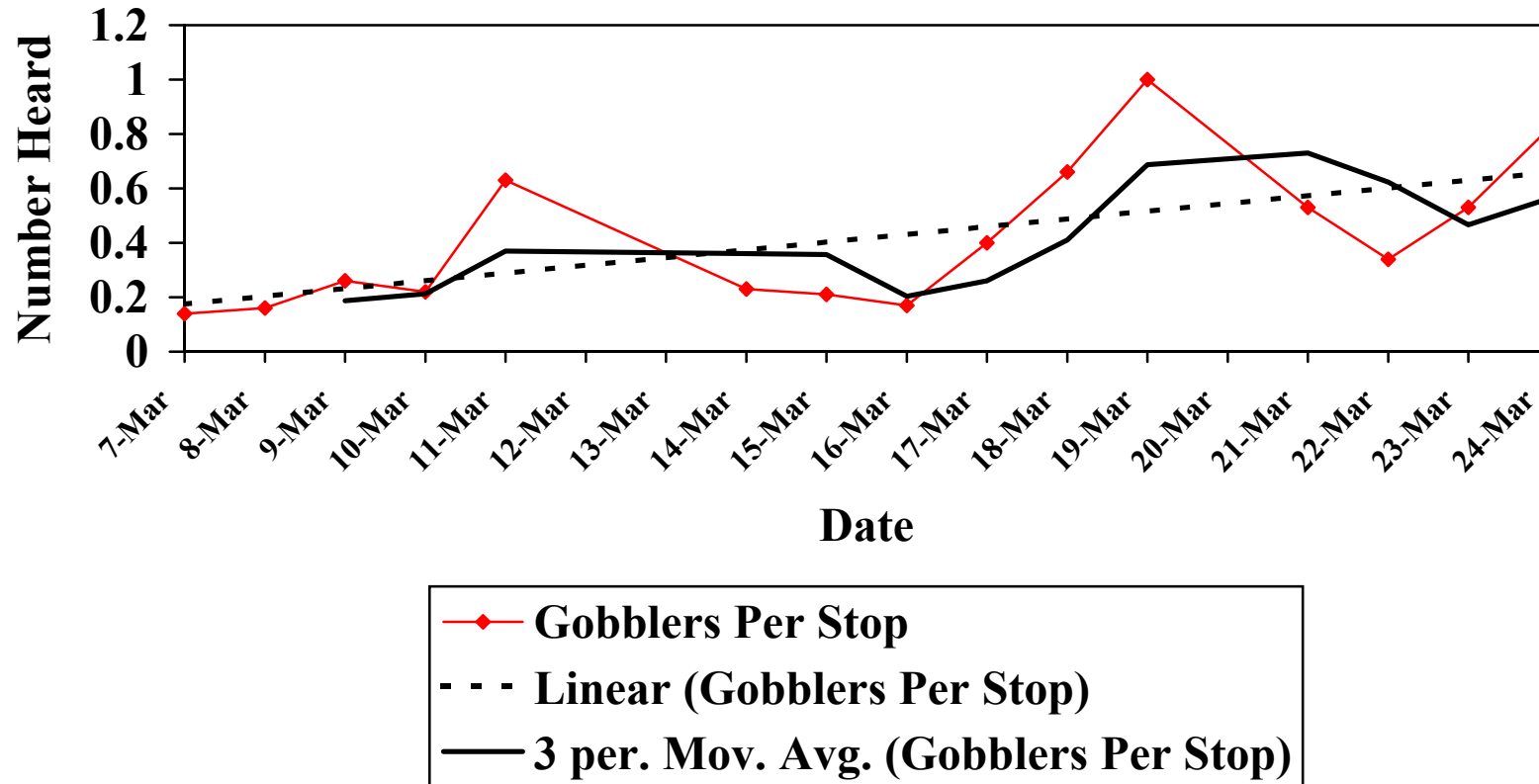


Figure 19.

## **Appendix**



**Amite River (Livingston Parish)**

Year	Dates	Stops	<u>Gobbles Per Stop</u>			High Date	<u>Individual Gobblers</u>			
			Mean	SE	Range		Mean	SE	Range	High Date(s)
2004	3/8 - 26	4	4.48	1.05	0 – 11.5	3/20	3.3	0.61	0 – 7	3/20
2005	3/7 – 24	4	3.75	1.28	0 – 15.3	3/24	3.5	0.76	0 – 8	3/11, 3/21

**Bens Creek WMA (Washington Parish)**

Year	Dates	Stops	<u>Gobbles Per Stop</u>			High Date	<u>Individual Gobblers</u>			
			Mean	SE	Range		Mean	SE	Range	High Date(s)
1999	3/15 - 26	4	2.28	0.52	0-4.8	3/24	2.9	0.67	0 - 6	3/23,3/24
2000	3/6 - 24	4	2.54	0.76	0 - 8.0	3/21	2.4	0.58	0 - 6	3/22, 3/23
2001	3/5 - 23	4	0.48	0.24	0 - 3.5	3/23	0.8	0.34	0 - 5	3/23
2002	3/4 - 22	4	2.20	0.80	0 – 9.0	3/19	2.2	0.63	0 - 8	3/20
2003	3/3 - 21	4	0.52	0.21	0 – 3.0	3/20	1.1	0.41	0 – 5	3/20
2004	3/8 – 26	4	0.83	0.47	0 - 7.3	3/25	0.9	0.27	0 – 3	3/25
2005	3/7 - 24	4	0.30	0.14	0 – 1.5	3/23	0.6	0.23	0 - 2	3/18, 3/22, 3/24

**Big Lake WMA (Franklin, Madison, and Tensas Parishes)**

Year	Dates	Stops	<u>Gobbles Per Stop</u>			High Date	<u>Individual Gobblers</u>			High Date(s)
			Mean	SE	Range		Mean	SE	Range	
2003	3/10-21	4	4.44	0.35	2.8 – 5.8	3/12	6.0	0.53	4 – 8	3/12,21
2004	3/8 – 23	4	5.19	0.99	0.7 – 9.5	3/12	9.0	1.72	1 – 16	3/23

### **Bodcau WMA 1 (Bossier Parish)**

Year	Dates	Stops	<u>Gobbles Per Stop</u>			High Date	<u>Individual Gobblers</u>			High Date(s)
			Mean	SE	Range		Mean	SE	Range	
1999	3/15 -26	4	5.2	1.48	0 - 15.3	3/21	2.1	0.55	0 - 4	3/15, 3/18, 3/21, 3/26
2000	3/6 -24	4	4.30	1.71	0 - 21.3	3/21	2.0	0.53	0 - 6	3/21
2001	3/13 -30	4	0.65	0.40	0 - 6.0	3/23	0.7	0.28	0 - 4	3/23
2002	3/4 - 22	4	2.25	0.69	0 – 9.5	3/5	1.8	0.38	0 - 5	3/5
2003	3/3 -21	4	1.20	0.48	0 – 6.5	3/17	0.8	0.26	0 – 3	3/18
2004	3/8 – 26	4	3.12	1.19	0 – 17.3	3/16	1.5	0.36	0 – 5	3/16
2005	3/7 - 24	4	1.61	0.44	0 – 4.3	3/19, 3/24	1.5	0.37	0 - 4	3/17

### **Boise-Vernon WMA (Vernon Parish)**

Year	Dates	Stops	<u>Gobbles Per Stop</u>			High Date	<u>Individual Gobblers</u>			High Date(s)
			Mean	SE	Range		Mean	SE	Range	
2004	3/8 -26	4	4.48	1.05	0 – 11.5	3/20	3.3	0.61	0 – 7	3/20

**Catahoula Ranger District (Grant and Winn Parishes)**

Year	Dates	Stops	<u>Gobbles Per Stop</u>			High Date	<u>Individual Gobblers</u>			High Date(s)
			Mean	SE	Range		Mean	SE	Range	
1999	3/15 - 26	4	4.83	1.48	0 - 14	3/15	3.9	0.87	0 - 8	3/22
2000	3/6 - 24	5	0.93	0.34	0 - 4.4	3/20	1.4	0.37	0 - 4	3/13, 3/20
2001	3/6 - 30	5	4.06	1.18	0 - 12.5	3/22	3.6	0.57	0 - 6	3/11, 3/18
2002	3/4 - 22	5	3.68	0.82	0 - 11.4	3/18	3.9	0.58	0 - 7	3/18, 3/22
2003	3/3 - 20	5	0.02	0.02	0 - 0.02	3/18	0.1	0.08	0 - 1	3/18
2004	3/8 - 26	5	3.37	0.72	0 - 7.2	3/17,23	2.4	0.58	0 - 7	3/17
2005	3/7 - 24	5	0.36	0.15	0 - 1.6	3/11	0.79	0.35	0 - 4	3/11

**Dewey Wills WMA (LaSalle Parish)**

Year	Dates	Stops	<u>Gobbles Per Stop</u>			High Date	<u>Individual Gobblers</u>			High Date(s)
			Mean	SE	Range		Mean	SE	Range	
2002	3/4 - 22	4	0	0	-	-	0	0	-	-

**Ft. Polk (Vernon Parish)**

Year	Dates	Stops	<u>Gobbles Per Stop</u>			High Date	<u>Individual Gobblers</u>			High Date(s)
			Mean	SE	Range		Mean	SE	Range	
2002	3/4 - 22	4	1.48	0.34	0 - 4.0	3/21	1.9	0.40	0 - 5	3/18
2003	3/12 - 21	4	0.50	0.79	0 - 6.0	3/19	1.8	0.53	0 - 4	3/19, 3/20
2004	3/8 - 26	5	0.76	0.15	0 - 1.8	3/23	1.9	0.34	0 - 5	3/10
2005	3/7 - 24	7	0.56	0.17	0 - 2.1	3/21	2.3	0.45	0 - 6	3/21

**Jackson-Bienville WMA (Jackson and Bienville Parishes)**

Year	Dates	Stops	<u>Gobbles Per Stop</u>			High Date	<u>Individual Gobblers</u>			High Date(s)
			Mean	SE	Range		Mean	SE	Range	
1999	3/15 - 28	4	5.38	1.43	0 - 13.8	3/17	4.5	0.97	0 - 8	3/17, 3/18, 3/27
2000	3/7 - 24	4	8.17	1.22	0 - 19.3	3/20	2.2	0.36	0 - 4	3/8, 3/13
2001	3/12 -30	4	6.38	1.98	0 - 27.3	3/22	4.2	1.08	0 - 14	3/23
2002	3/4 - 22	4	1.29	0.33	0 - 4	3/20	2.0	0.42	0 - 4	3/07, 3/18, 3/20, 3/21
2003	3/3 - 21	5	0.28	0.16	0 - 2.2	3/21	0.5	0.24	0 - 3	3/4
2004	3/8 - 26	5	2.53	0.78	0 - 10.6	3/17	3.2	0.79	0 - 10	3/17
2005	3/7 - 24	4	1.46	0.43	0 - 6.5	3/24	1.79	0.43	0 - 6	3/24

#### **Mosher Hill Hunting Club (Washington Parish)**

Year	Dates	Stops	<u>Gobbles Per Stop</u>			High Date	<u>Individual Gobblers</u>			High Date(s)
			Mean	SE	Range		Mean	SE	Range	
2000	3/6 - 24	4	5.21	1.23	0 - 13.5	3/20	3.2	0.55	0 - 7	3/22
2001	3/5 - 30	4	1.27	0.32	0 - 4.3	3/21	1.6	0.31	0 - 3	3/13, 3/18, 3/20, 3/21, 3/22
2002	3/4 - 22	4	2.82	0.96	0 - 10.25	3/20	2.1	0.53	0 - 6	3/20
2003	3/4 - 22	4	0.48	0.23	0 - 2.5	3/20, 3/21	0.9	0.41	0 - 5	3/21
2004	3/8 - 26	4	0.35	0.17	0 - 2	3/25	0.5	0.19	0 - 2	3/17, 3/25
2005	3/7 - 24	4	0.56	0.34	0 - 4.5	3/17	0.54	0.18	0 - 2	3/23

#### **Red River WMA (Concordia Parish)**



Year	Dates	Stops	<u>Gobbles Per Stop</u>			High Date	<u>Individual Gobblers</u>			
			Mean	SE	Range		Mean	SE	Range	High Date(s)
2003	3/3 - 21	4	1.58	0.44	0 – 5.0	3/12	1.0	0.28	0 – 3.0	3/12, 3/13
2004	3/8 - 26	4	5.17	1.55	0 – 16	3/11	2.7	0.70	0 – 8	3/17
2005	3/7 – 24	4	0.73	0.31	0 – 3.8	3/9	0.43	0.17	0 - 2	3/7

**Sherburne WMA (Pointe Coupee, St. Martin, and Iberville Parishes)**

Year Range	Dates	Stops	<u>Gobbles Per Stop</u>			High Date	<u>Individual Gobblers</u>			High Date
			Mean	SE	Range		Mean	SE		
1999	3/16 - 26	6 <sup>a</sup>	6.90	0.91	2.7 - 11.8	3/19	7.2	1.45	2 - 13	3/26
2000	3/6 - 23	6 <sup>a</sup>	5.52	1.42	0 - 15.7	3/21	7.5	1.30	0 - 15	3/23
2001	3/5 - 30	6 <sup>a</sup>	3.74	0.93	0 - 11.3	3/22	3.3	0.63	0 - 17	3/19
2002	3/4 - 22	7 <sup>a</sup>	0.57	0.35	0 – 5.0	3/7	1.0	0.52	0 - 7	3/07
2003	3/3 - 21	7 <sup>a</sup>	3.27	0.84	1 – 10.6	3/14	3.5	0.58	0 - 7	3/19
2004	3/8 – 26	7 <sup>a</sup>	7.34	1.84	0.5 – 24.4	3/17	5.1	0.80	1 – 11	3/23
2005	3/7 -24	7 <sup>a</sup>	5.34	1.83	0 – 25.1	3/18	4.5	1.07	0 - 14	3/18

a Consists of 2 routes of 3 and 4 stops each, run simultaneously

**Sicily Island WMA (Catahoula Parish)**

Gobbling Data											
Year	Dates	Stops	Mean	Gobbles Per Stop			High Date	Individual Gobblers			High Date(s)
				SE	Range	Mean		SE	Range		
2003	3/4 - 21	4	3.98	1.33	0 – 14.0	3/12	4.4	1.18	0 – 13.0	3/12	
2004	3/8 – 26	4	9.02	2.01	0.5 – 27.0	3/23	7.9	1.24	1 – 18	3/11	
2005	3/7 – 24	5	1.36	0.45	0 – 5.6	3/24	2.71	0.81	0 - 9	3/24	

### Three Rivers WMA (Concordia Parish)

Three Rivers Water (Concordia Parish)										
Year	Dates	Stops	<u>Gobbles Per Stop</u>			High Date	<u>Individual Gobblers</u>			High Date(s)
			Mean	SE	Range		Mean	SE	Range	
2003	3/3 - 19	4	3.12	1.12	0 – 12.5	3/13	2.3	0.68	0 – 7.0	3/19
2004	3/8 – 26	4	6.17	3.11	0 – 40.0	3/24	3.2	1.08	0 – 11	3/24
2005	3/7 - 24	4	0.68	0.31	0 – 3.8	3/10	0.79	0.28	0 - 3	3/10

### Union (Union Parish)

Gobblers Per Stop											
Year	Dates	Stops	Mean	Gobbles Per Stop			High Date	Individual Gobblers			
				SE	Range	Mean		SE	Range	High Date(s)	
2002	3/4 – 22	4	2.76	0.96	0 - 12.5	3/19	2.20	0.52	0 - 7	3/19	
2003	3/3 - 21	5	2.23	0.66	0 – 10.0	3/17	2.73	0.53	0 – 8	3/17	
2004	3/8 - 26	5	6.38	1.35	0 – 17.2	3/17	3.87	0.52	0 – 6	3/8, 16, 17, 18	
2005	3/7 - 24	5	3.63	0.80	0 – 10.6	3/18	3.0	0.55	0 - 6	3/17, 3/18, 3/24	

### West Bay WMA (Allen Parish)

Year	Dates	Stops	<u>Gobbles Per Stop</u>				<u>Individual Gobblers</u>			
			Mean	SE	Range	High Date	Mean	SE	Range	High Date(s)
2002	3/5 –21	4	1.37	0.62	0 –8.25	3/20	2.0	0.68	0 - 8	3/18
2004	3/8 - 26	4	0.18	0.07	0 – 0.8	3/22	0.4	0.13	0 – 1	3/12, 13, 15, 18, 22, 23
2005	3/8 - 24	5	0.18	0.12	0 – 1.4	3/18	0.90	0.55	0 - 5	3/18